

CLAIMS

It is claimed

1. A cooking top comprising at least one of a glass and a glass ceramic and having at least one heating zone and an underside; at least one electrical heating unit provided on the underside of said heating zone, wherein said heating unit is in flat, heat-conducting contact with the underside of said heating zone; wherein said heating unit comprises at least one electrical resistance heating element exhibiting PTC behavior, wherein the PTC characteristic curve is selected so that the temperature of said heating zone is limited to a desired value, and said heating unit having a metallic heat-conducting support element which forms a surface region and upon or in which the heating element is situated, said metallic heat-conducting support element being in flat contact with the underside of the heating zone, wherein on the metallic, heat-conducting support element of the heating unit at least one shaft is provided into which the heating element is inserted, and that the heating element is electrically insulated with respect to the support element by an insulator.
2. The cooking top according to claim 1, wherein the heating unit is pressed flat against the underside of the zone by spring elements.
3. The cooking top according to claim 1, wherein the heating unit is adhesively bonded to the underside of the zone at specific points, or in the form of a seam, or flush to the underside.
4. The cooking top according to claim 1, wherein the desired temperature value corresponds to a warming temperature, a cooking temperature, or a grilling temperature.
5. The cooking top according to claim 1, wherein a layer of heat sink paste is applied between the underside and the heating unit.
6. The cooking top according to claim 1, wherein the support element is electrically insulated with respect to the underside by an intermediate layer.

7. The cooking top according to claim 1, wherein the heating element is formed from a rod-shaped ceramic element which exhibits PTC properties and on which electrodes flat on both sides are situated.

8. The cooking top according to claim 1, wherein the surface region of said heating element, is smaller than that of the said support element.

9. The cooking top according to claim 1, wherein at least two heating units are positioned side by side on the underside of the zone and extend over the underside of said heating zone.